U. S. ARMY ENGINEER
GEODESY, INTELLIGENCE AND MAPPING RESEARCH AND DEVELOPMENT AGENCY
FORT BELVOIR, VIRGINIA

ENGGM-IN 5 October 1962

MEMO FOR THE RECORD

SUBJECT: Change Detector Conference, 1 October 1962

1. A representative of the funding agency and the undersigned visited [redacted] STAT

2. Although the original intent was to handle a 70 mm. film format, Goodyear was directed in the contract to make a study of the feasibility of modifying the design to handle any size format up to 9 inches, although the larger formats might be scanned in portions through a 70 mm. aperture. Goodyear has studied the use of a 70-mm. aperture for 5-inch and 9-inch films; a 5-inch aperture for 70-mm. and 5-inch films and a 9-inch aperture for 70-mm. 5-inch and 9-inch films. Using a 70 mm. aperture for 9-inch film makes it difficult to locate the corresponding areas on the two rolls of film, since only 1/16 of the frame is being scanned at a time. Use of a 5-inch aperture would be much more practical. It may be possible to use the same optics planned for the 70 mm. design, but there would be some loss in the quality of the system. There are other considerations, such as the film transport mechanism and the requirement to correct the azimuth to 90° to each side.

3. Although [redacted] is not yet finished with this feasibility study, STAT it is evident that incorporating the capability to handle larger formats will require sufficient design modification that will cause some delay in fabricating the equipment. It was agreed that [redacted] should go ahead STAT and build the Change Detector to handle only the 70 mm. format. Goodyear will complete the feasibility study for handling larger formats and submit a report in two or three months. This extends beyond the original schedule, but does not involve any additional costs or delay any other part of the project. The purpose of completing this feasibility study is to have the information available for use if an improved model is desired after the first one is completed.

4. It was pointed out that it would be desirable for the Change Detector to handle 250-ft. rolls of 70 mm. film. The contract, however, calls for the device to handle 100-ft. rolls. This would require only a minor change in design which would make no difference in the cost. One of these 250-ft. spools will be obtained, and [redacted] will be notified soon if we want them to accommodate the larger spool. STAT

[redacted] STAT

Intelligence Division